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MEAN WELL

SWITCHING POWER SUPPLY

ISO-9001 CERTIFIED MANUFACTURER

TP-100 SERIES

Jameco Part Number 213786 (TP-100B)

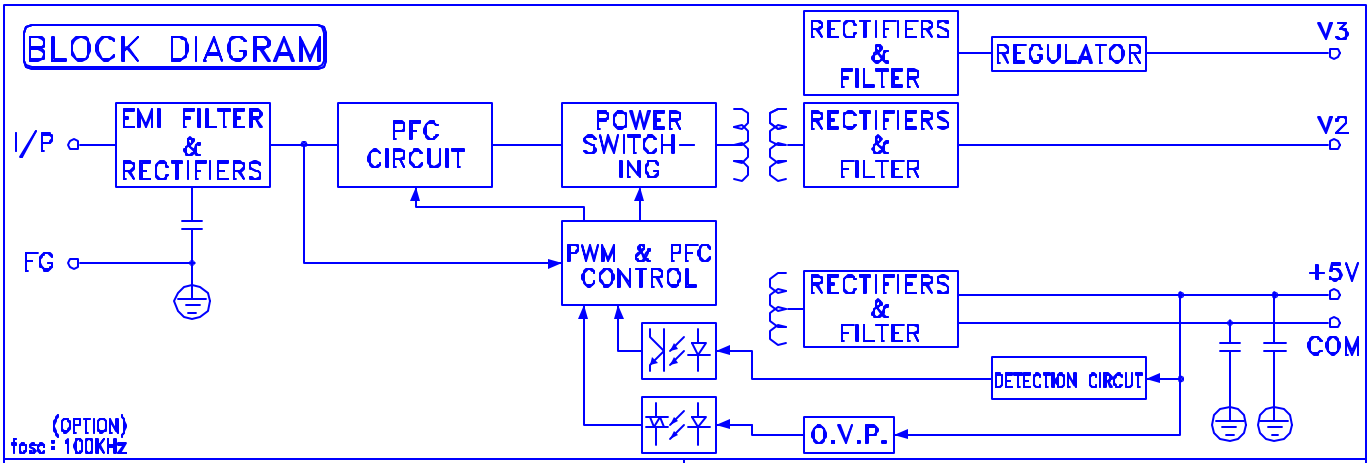
.LOW COST, HIGH RELIABILITY
.105°C OUTPUT CAPACITOR
.INTERNATIONAL AC INPUT RANGE
.HIGH EFFICIENCY, LOW WORKING TEMPERATURE
.SOFT-START CIRCUIT, LIMITING AC SURGE CURRENT
.SHORT CIRCUIT, OVERLOAD, OVER VOLTAGE PROTECTED

MODEL / SPECIFICATION	TP-100A			TP-100B			TP-100C			TP-100D		
	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3	CH1	CH2	CH3
DC OUTPUT VOLTAGE	5V	12V	-5V	5V	12V	-12V	5V	15V	-15V	5V	24V	+12V
OUTPUT V. TOLERANCE	±3%	±7%	±6%	±3%	±6%	±6%	±3%	+10, -6%	±6%	±3%	±8%	±6%
OUTPUT RATED CURRENT	10A	4A	0.6A	10A	4A	0.6A	10A	3A	0.6A	10A	2A	0.6A
OUTPUT CURRENT. RANGE	3-15A	0.4-5A	0-1A	3-15A	0.4-5A	0-1A	3-15A	0.4-4A	0-1A	3-15A	0.4-3A	0-1A
RIPPLE & NOISE	100mV	120mV	100mV	100mV	120mV	100mV	100mV	150mV	100mV	100mV	150mV	100mV
LINE REGULATION	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%	±1%
LOAD REGULATION	±3%	±6%	±4%	±3%	±6%	±4%	±3%	±6%	±4%	±3%	±6%	±4%
MAX. OUTPUT POWER	101W			105.2W			104W			105.2W		
EFFICIENCY	75%			78%			77%			78%		
DC VOLTAGE ADJ.	CH1:+10%,-5%											
INPUT VOLTAGE RANGE	90~264VAC 47~63Hz ; 127~370VDC											
AC CURRENT	1.5A/115V 0.75A/230V											
INRUSH CURRENT	COLD START <= 40A/230V											
LEAKAGE CURRENT	<3.5mA/240VAC											
OVERLOAD PROTECTION	105~150 % PULSE MODE RESET:AUTO RECOVERY											
OVER VOLTAGE PROTECTION	115%~135% ON +5V TYPE:SHUTDOWN RESET:RE POWER ON											
OVER TEMP.PROTECTION(OPTION)	95°C±5°C TSW1 TYPE:SHUTDOWN RESET:AUTO RECOVERY											
POWER FACTOR	PF>0.94/230VAC, PF>0.98/115VAC											
TEMP. COEFFICIENT	±0.03% / °C (0~50°C)											
SETUP,RISE,HOLD UP TIME	800ms, 60ms, 20ms / 230,115VAC											
VIBRATION	10~500Hz, 2G 3AXES 10min. / 1cycle (1 HOUR / EACH AXES)											
WITHSTAND VOLTAGE	I/P-O/P:3KVAC I/P-FG:1.5KVAC O/P-FG:0.5KVAC 1min.											
ISOLATION RESISTANCE	I/P-O/P,I/P-FG,O/P-FG:500VDC / 100M ohms											
WORKING TEMP., HUMIDITY	-10°C~+60°C(REFER TO OUTPUT DERATING CURVE), 20%~90% RH											
STORAGE TEMP., HUMIDITY	-20°C~+85°C, 10%~95% RH											
DIMENSION	199*90*50mm (L*W*H) CASE:916A											
WEIGHT	730gs											
SAFETY STANDARDS	UL1950,TUV EN60950 APPROVED											
EMC STANDARDS	EN55022 CLASS B, EN61000-4-2,3,4,5,6,8,11; ENV50204, EN61000-3-2,-3, EN55024 VERIFICATION											

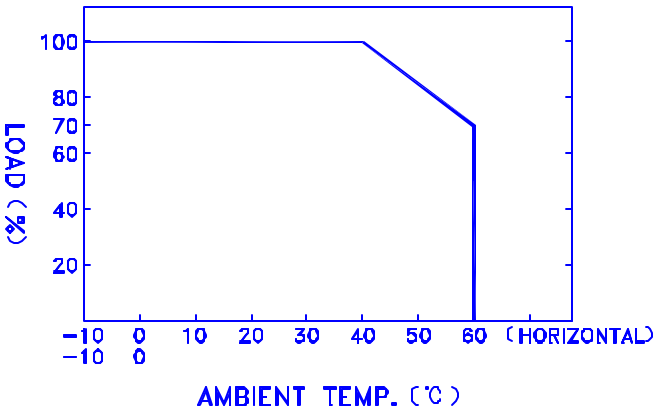
NOTE :
1.ALL PARAMETERS ARE SPECIFIED AT 230VAC INPUT, RATED LOAD, 25°C 70% RH. AMBIENT.
2.TOLERANCE GINCLUDE SET UP TOLERANCE, LINE REGULATION, LOAD REGULATION.
3.RIPPLE & NOISE ARE MEASURED AT 20MHz BY USING A 12" TWISTED PAIR TERMINATED WITH A 0.1uF & 47uF CAPACITOR.
4.LINE REGULATION IS MEASURED FROM LOW LINE TO HIGH LINE AT RATED LOAD.
5.OUTPUT PROVIDE UP TO MAXIMUM CURRENT, BUT TATAL OUTPUT CAN NOT EXCEED MAX. OUTPUT POWER MAXIMUM OUTPUT POWER.
6.MOUNTING HOLES M1 AND M2 SHOULD BE GROUNDED FOR EMI PURPOSES.

2002-07-02

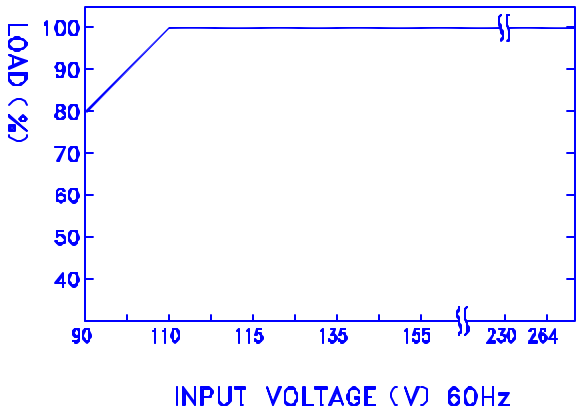
BLOCK DIAGRAM



OUTPUT DERATING VS Ta



OUTPUT DERATING VS INPUT VOLTAGE



DIMENSION (mm)

- CASE : 916A
- TERMINAL PIN NO. ASSIGNMENT
  - PIN 1,2 : AC INPUT
  - PIN 3 : FG ⏚
  - PIN 4 : DC OUTPUT V3
  - PIN 5 : DC OUTPUT V2
  - PIN 6,7 : DC OUTPUT V1
  - PIN 8,9 : DC OUTPUT COM